

## ABSTRACT OF THE DISCLOSURE

A channel selection method is implemented by a mobile terminal in a time division multiple access system. The mobile terminal performs a plurality of repetitive power measurements on each of a plurality of carriers over a plurality of successive power measurement windows. During each power measurement window, one power measurement is taken on each carrier. The power measurements are repeated a predetermined number of times on each carrier, each repeated power measurement being taken in a different power measurement window. The power measurement on a given carrier is taken at the same relative position within each power measurement window, which comprises one frame plus one slot of a TDMA multi-frame.